

50%, wherein said oil is produced by culturing a producer microorganism in a fermentor with aeration.

DIA
Cm

14. (Three Times Amended) An arachidonic acid-containing oil comprising a 24,25-methylencholest-5-en-3 β -ol compositional ratio of 35% or lower, a 24,25-methylencholest-5-en-3 β -ol compositional ratio in a proportion of 1.2 or less with respect to the desmosterol compositional ratio, and an arachidonic acid content of 30 to 50%, wherein said oil is produced by culturing a producer microorganism in a fermentor with aeration.

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30. (Amended) An immature infant formula, infant formula, baby food or pregnancy food product comprising a nutritive dietary supplement according to claim 29.

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32. (Twice Amended) An arachidonic acid-containing oil comprising a 24,25-methylencholest-5-en-3 β -ol compositional ratio of 35% or lower, and an arachidonic acid content of 30 to 50%, wherein said oil is produced by culturing a producer microorganism in a fermentor with aeration.

Please add new claims 37-50 as follows:

Rule 1.24
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-37. (New) A nutritive dietary supplement comprising at least one arachidonic acid-containing oil selected from the group consisting of:

DIX

(10/00)

an arachidonic acid-containing oil having a 24,25-methylencholest-5-en-3 β -ol compositional ratio of 35% or lower and an arachidonic acid content of 30 to 50%;

an arachidonic acid-containing oil having a 24,25-methylencholest-5-en-3 β -ol compositional ratio in a proportion of 1.2 or less with respect to the desmosterol *D₄C₁₇* compositional ratio and an arachidonic acid content of 30 to 50%; and

an arachidonic acid-containing oil having a 24,25-methylencholest-5-en-3 β -ol compositional ratio of 35% or lower, a 24,25-methylencholest-5-en-3 β -ol compositional ratio in a proportion of 1.2 or less with respect to the desmosterol compositional ratio, and an arachidonic acid content of 30 to 50%,

wherein said oil is produced by culturing a producer microorganism in a fermentor with aeration.

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38. (New) The arachidonic acid-containing oil as recited in claim 13, wherein said producer microorganism is cultured in a fermentor with aeration in a medium containing soybean protein as a nitrogen source.

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39. (New) The arachidonic acid-containing oil as recited in claim 14, wherein said producer microorganism is cultured in a fermentor with aeration in a medium containing soybean protein as a nitrogen source.

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40. (New) The arachidonic acid-containing oil as recited in claim 32, wherein said producer microorganism is cultured in a fermentor with aeration in a medium containing soybean protein as a nitrogen source.

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41. (New) The nutritive dietary supplement as recited in claim 37, wherein said producer microorganism is cultured in a fermentor with aeration in a medium containing soybean protein as a nitrogen source.

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42. (New) An arachidonic acid-containing oil produced by a process of culturing with aeration a microorganism belonging to the genus *Mortierella* subgenus *Mortierella* in a liquid medium containing a nitrogen source derived from soybean in a fermentor under conditions effective to produce an oil having a 24,25-methylenecholest-5-en-3 β -ol compositional ratio in a proportion of 1.2 or less with respect to the desmosterol compositional ratio, and an arachidonic acid content of 30 to 50%.

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43. (New) An arachidonic acid-containing oil produced by a process of culturing with aeration a microorganism belonging to the genus *Mortierella* subgenus *Mortierella* in a liquid medium containing a nitrogen source derived from soybean in a fermentor under conditions effective to produce an oil having a 24,25-methylenecholest-5-en-3 β -ol compositional ratio of 35% or lower, a 24,25-methylenecholest-5-en-3 β -ol compositional

ratio in a proportion of 1.2 or less with respect to the desmosterol compositional ratio, and an arachidonic acid content of 30 to 50%.

S44. (New) An arachidonic acid-containing oil produced by a process of culturing with aeration a microorganism belonging to the genus *Mortierella* subgenus *Mortierella* in a liquid medium containing a nitrogen source derived from soybean in a fermentor under conditions effective to produce an oil having a 24,25-methylenecholest-5-en-3 β -ol compositional ratio of 35% or lower, and an arachidonic acid content of 30 to 50%.

S5 *S2*
45. (New) The arachidonic acid-containing oil as recited in claim *42*, wherein said nitrogen source has a nitrogen content of at least 2 wt% with respect to the total components except for water.

S6 *S3*
46. (New) The arachidonic acid-containing oil as recited in claim *43*, wherein said nitrogen source has a nitrogen content of at least 2 wt% with respect to the total components except for water.

S7 *S4*
47. (New) The arachidonic acid-containing oil as recited in claim *44*, wherein said nitrogen source has a nitrogen content of at least 2 wt% with respect to the total components except for water.

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48. (New) A nutritive dietary supplement comprising the arachidonic acid-containing oil as recited in claim *42*.

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Cmt*
49. (New) A nutritive dietary supplement comprising the arachidonic acid-containing oil as recited in claim *43*.

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50. (New) A nutritive dietary supplement comprising the arachidonic acid-containing oil as recited in claim *44*--